

***Washington State Dept of Ecology Letter on agency letterhead
sent to list below***

Dear Wood Furnace Manufacturer/Distributor:

The purpose of this letter is to clarify Washington State's solid fuel burning device regulations, as they pertain to the sale of wood furnaces, and point out the differences between Washington's requirements and federal EPA requirements.

Effective January 1, 1995, Washington regulations required that all solid fuel burning devices offered for sale in Washington meet Emission Performance Standards described in Washington Administrative Code 173-433-100 (3). These standards limit particulate matter emissions to:

- two and one-half grams per hour for catalytic woodstoves, and
- four and one-half grams per hour for **all other** solid fuel burning devices.

A solid fuel burning device is any device that burns wood, coal, or any other non-gaseous or non-liquid solid fuels for aesthetic or space-heating purposes in a private residence or commercial establishment, which has a heat input less than one million British thermal units (Btu) per hour. Therefore, by state definition, a wood furnace is a solid fuel burning device, and therefore must meet the particulate matter emission standard of four and one-half grams per hour before it may be offered for sale in Washington.

The Washington state standards differ from EPA New Source Performance Standards (NSPS) for Wood Heaters in the following ways:

- Washington's particulate emission limits are more stringent than those specified in the federal NSPS, and
- Washington's particulate emission limits apply to all solid fuel burning devices, including wood furnaces.

While EPA regulations still exempt certain devices from testing and/or certification requirements, Washington regulations require that all devices be tested and certified to comply with the more stringent Washington particulate emission limits.

Therefore, wood furnaces with heat inputs of less than one million Btu may not be sold anywhere within the state of Washington unless the Department of Ecology has determined that the furnace meets state emission standards. Any retailer, wholesaler or

distributor offering for sale or selling a non-compliant device, may be subject to formal enforcement action.

Wood furnaces with heat inputs of **one million Btu per hour or more**, while not subject to solid fuel burning device standards, upon operation, must not exceed the visible emission standard of 20% opacity for more than three minutes in any one hour, contained in WAC 173-400-040(1). In addition, some local air authorities may require a demonstration that the units meet specific grain loading standards, as measured by EPA method 5 test in Appendix A to 40 CFR Part 60.

Complete text of the Washington state solid fuel burning device rule can be found at <http://www.ecy.wa.gov/pubs/wac173433.pdf>.

If you have any questions, please call Tom Todd at (360) 407-7528.

Sincerely,

Sarah Rees
Air Quality Program

Mail to:

Alternate Heating Systems, Inc.
2395 Little Egypt Road
Harrisonville, PA 17228

Aqua-Therm LLC
48301 State Hwy 55
Brooten, MN 56316

Central Boiler, Inc.
20502 160th Street
Greenbush, MN 56726

Charmaster Products, Inc.
2307 Highway 2 West
Grand Rapids, MN 55744

Dectra Corporation
3425 33rd Ave NE
St. Anthony, MN 55418

Freedom Outdoor Furnace
7958 Curwensville Tyrne Hwy
Olanta, PA 16863-8710

Global Hydronics
Box 717
Winkler, Manitoba R6W 4A1
Canada

Hardy Manufacturing
12345 Road 505
Philadelphia, MS 39350

Heatmor Inc.
105 Industrial Park Court NE
Warroad, MN 56763

Heat Innovations
499 Manitoba Road
P.O. Box 989
Winkler , MB R6W 4B1
Canada

Heatsource1
2201 Ridgeview Drive
Beatrice, NE 68310

Hicks Waterstoves and Solar Systems
2541 South Main Street
Mount Airy, NC 27030

Horstmann Industries, Inc.
301 Second Street
Elroy, WI 53929

Innotech Developments
2015 James Street South
Thunder Bay, ON P7J1G6
Canada

Johnson Manufacturing
N5499 County E
Ogdensburg, WI 54962

Mahoning Outdoor Furnace
RD #1 Box 250
Mahaffey, PA 15754-0000

Mahoning Outdoor Furnace
Somerset, PA 15501

Noonan's Welding & Heating
105 1st Sreet South
Keewatin, MN 55753

Northwest Manufacturing
600 Polk Ave SW
Red Lake Falls, MN 56750

Outside Heating Systems - Wood
Doctor
PO Box 567
Stewiacke, NS B0N 2JO
Canada

Pro-Fab Industries/Cozeburn
Box 112
Arborg, Manitoba, ROC OAO
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Tarm USA, Inc.
Main Street Box 285
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Taylor Manufacturing, Inc.
PO Box 518
US HWY 701 South
Elizabethtown, NC 28337

Timber Ridge, Inc.
2020 Highway 11-E
Jonesborough, TN 37659

Turbo Burn, Inc.
4309 E Joseph
Spokane, WA 99217

CB Sales, Inc.
9924 E. Woolard Rd
Colbert, WA 99005